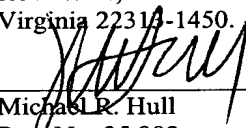


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|------------------------------------|---|--|
| Applicants: Choi et al. |) | I hereby certify that this paper and the |
| |) | documents referred to as enclosed |
| Serial No.: To be assigned |) | therewith are being deposited with the |
| |) | United States Postal Service utilizing the |
| Filed: July 16, 2003 |) | "Express Mail Post Office to Addressee" |
| |) | service under Mailing Label No. |
| For: Method for Forming Ultra Fine |) | EV 323 772 519 US on July 18, 2003 , in |
| Contact Holes in Semiconductor |) | an envelope addressed to Commissioner |
| Devices |) | for Patents, P.O. Box 1450, Alexandria, |
| |) | Virginia 22313-1450. |
| Group Art Unit: To be assigned |) |  |
| |) | Michael R. Hull |
| Examiner: To be assigned |) | Reg. No. 35,902 |
| |) | Attorney for Applicant |

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith for consideration by the examiner are copies of the documents identified on the attached PTO-1449. Entry and consideration of the submitted documents is solicited.

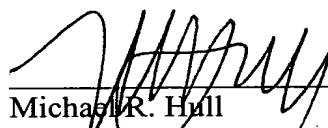
The Commissioner is authorized to charge any fee deficiency required by this paper, or credit any overpayment, to Deposit Account No. 13-2855. A copy of this paper is enclosed.

Respectfully submitted,

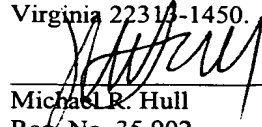
MARSHALL, GERSTEIN & BORUN
6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6357
(312) 474-6300

July 18, 2003

By:


Michael R. Hull
Reg. No. 35,902

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|------------------------------------|---|--|
| Applicants: Choi et al. |) | I hereby certify that this paper and the |
| |) | documents referred to as enclosed |
| Serial No.: To be assigned |) | therewith are being deposited with the |
| |) | United States Postal Service utilizing the |
| Filed: July 16, 2003 |) | "Express Mail Post Office to Addressee" |
| |) | service under Mailing Label No. |
| For: Method for Forming Ultra Fine |) | EV 323 772 519 US on July 18, 2003, in |
| Contact Holes in Semiconductor |) | an envelope addressed to Commissioner |
| Devices |) | for Patents, P.O. Box 1450, Alexandria, |
| |) | Virginia 22314-1450. |
| Group Art Unit: To be assigned |) |  |
| |) | Michael R. Hull |
| Examiner: To be assigned |) | Reg. No. 35,902 |
| |) | Attorney for Applicant |

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith for consideration by the examiner are copies of the documents identified on the attached PTO-1449. Entry and consideration of the submitted documents is solicited.

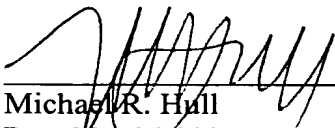
The Commissioner is authorized to charge any fee deficiency required by this paper, or credit any overpayment, to Deposit Account No. 13-2855. A copy of this paper is enclosed.

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN
6300 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606-6357
(312) 474-6300

July 18, 2003

By:


Michael R. Hull
Reg. No. 35,902

| | | | |
|---|--|------------------|----------------|
| For m PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Atty. Docket No. | Serial No. |
| | | 29926/39470 | To be assigned |
| | | Applicant | |
| | | Choi et al. | |
| INFORMATION DISCLOSURE STATEMENT | | Filing Date | Group |
| | | July 18, 2003 | To be assigned |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|--|-----------------|------------|-----------------|-------|----------|-------------------------------|
| *Examiner Initials | | Document Number | Issue Date | Name | Class | Subclass | Filing Date if Appropriate |
| | | 35,821 | 06/09/1998 | Niki et al. | | | |
| | | 5,178,989 | 01/12/1993 | Heller et al. | | | |
| | | 5,326,675 | 07/05/1994 | Niki et al. | | | |
| | | 6,127,098 | 10/03/2000 | Nakagawa et al. | | | |
| | | 6,210,868 B1 | 04/03/2001 | Yoshii | | | |
| | | 6,277,546 B1 | 08/21/2001 | Breyta et al. | | | |
| | | 6,420,098 B1 | 07/16/2002 | Mautz | | | |
| | | 6,485,895 B1 | 11/26/2002 | Choi et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|--|-----------------|------------------|---------|-------|----------|------------------|----|
| *Examiner Initials | | Document Number | Publication Date | Country | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | | 07-261392 | 10/13/1995 | Japan | | | Abstract Only | |
| | | 09-205270 | 08/05/1997 | Japan | | | Abstract Only | |
| | | 10-070354 | 03/10/1998 | Japan | | | Abstract Only | |
| | | 10-301300 | 11/13/1998 | Japan | | | Abstract Only | |
| | | 2000-174127 | 06/23/2000 | Japan | | | Abstract Only | |
| | | 2001-100428 | 04/13/2001 | Japan | | | Abstract Only | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) | | |
|--|--|--|
| | | |
| | | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.</p> | |